

ABSTRACT
HANDWRITING RECOGNITION SYSTEM

In order to improve the accuracy of recognition of hand-written input using a
5 stylus (1), output signals from a plurality of accelerometers representing x and y axis
acceleration and deceleration are sampled at a predetermined rate and passed through
a digital bandpass filter (7) to remove high frequency components and dc components
arising from gravity. x and y vectors derived from the original x and y input signals
are passed to a classifier using a hidden Markov model. Bandpass filtering improves
10 the robustness of the interpretation of the vectors against stored templates which
may be templates of individual characterisations or of whole words.

Figure 1

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